

## Properties of the *Bacillus pumilus* glutamyl endopeptidase at different growth stages of its recombinant strain

Balaban N., Danilova Y., Shamsutdinov T., Mardanova A., Cheremin A., Rudenskaya G., Sharipova M.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### Abstract

The *Bacillus pumilus* 3-19 Glutamyl peptidase (EC 3.4.21.19) was isolated from the culture medium of the *B. subtilis* recombinant strain at the following stages of the bacillus growth: a decelerating growth phase and a stationary growth phase. The action of the purified preparations of the enzyme on different phases of its growth was studied on the insulin B-chain and various protein and peptide substrates. Physicochemical properties of the enzyme were compared for different phases of its growth. The glutamyl endopeptidase preparations differed in their catalytic characteristics and their sensitivity to the metal cations. © 2013 Pleiades Publishing, Ltd.

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### Keywords

*B. pumilus*, different phases of the culture growth, glutamyl endopeptidase, heterologous protein, isolation